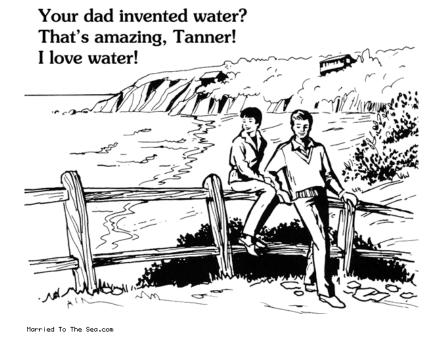
| NT | D 1. |
|------|---------|
| Name | Period: |

Earth Science Study Guide (Weeks 1 & 2)



All water has a perfect memory and is forever trying to get back to where it was.

--Toni Morrison

Water and air, the two essential fluids on which all life depends, have become global garbage cans. -- Jacques Yves Cousteau

Overview

Water is an essential natural resource on planet Earth. All organisms on Earth depend on water for life. Its unique physical and chemical properties are important to the dynamics of Earth systems. Multiple factors affect the quality, availability, and distribution of Earth's water. As a limited natural resource, fresh water requires conservation efforts and thoughtful choices as human populations increase around the globe.

Essential questions:

- o How can you make a difference when it comes to water conservation?
- How does the land, the air, and human transformation of the planet affect the availability of fresh water?

Week 1: Due March 31

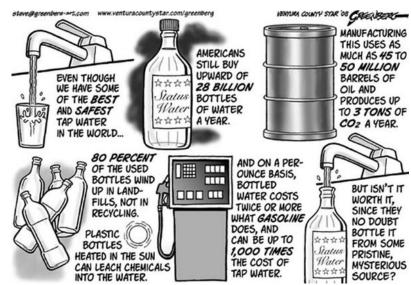
| 1. Read | the overview | and quotes | with the class | s and r | nark th | em u | p |
|---------|--------------|------------|----------------|---------|---------|------|---|
| | | | | | | | |

| Name | Period: | Cycle 4 March 31 – May 21 | | |
|------|---|--|--|--|
| | 2. Make vocabulary cards or fill out vocabulary sheets for the following words: precipitation, natural purification (re: water), reservoir, transpiration, aquifer, drought, irrigation, saline, caustic, outgassing, salts, tides. | | | |
| | 3. Complete Sections 1 and 2 of the lab activity: What' | s My Environment? | | |
| | 4. Present your research findings on your Utah plant a What's My Environment?) | nd/or animal to the class. (Part 2 of | | |
| | 5. Complete part III of What's My Environment? by turattached (not stapled) to your question sheet. | rning in your colored transparency map | | |
| | 6. Discuss, as a class, your observations of the comparthree environments. | isons with your own map to Utah's | | |
| | 7. Read and take notes on pp. 218-223 of the Earth Sci | i <u>ence</u> textbook. | | |
| | 8. Complete the questions 1-6 on p. 223 of the Earth S | <u>cience</u> textbook. | | |
| | 9. Using the supplied data from inland and costal tempaccurately and usefully presents the data. What conclusions | | | |
| Week | c 2: Due April 14 | | | |
| | 10. Read and take notes on pp. 231-236 of the Earth S | <u>cience</u> Textbook. | | |
| | 11. Complete answers to questions 1-6 on p. 236 of th | e <u>Earth Science</u> Textbook. | | |
| | $_{\rm materials}$ 12. Manipulate, observe, and communicate your experimentals of H_2O . I can describe and explain the concept of p | | | |
| | 13. Review lesson: Cohesive and Adhesive properties of | of water. | | |
| | 14. Participate in, ask questions, and complete the act | ivity: Water on a Penny. | | |
| | 15. Participate in, ask questions, and take notes on the 2000 Simulator. | e Lesson: Groundwater using the Envision | | |
| | 16. Bring in 2 water samples from the same pond, rive source. You will use this sample to begin next Monday's lab: | | | |

Earth Science Study Guide (Weeks 3, 4, & 5)

Overview

Water is an essential natural resource on planet Earth. All organisms on Earth depend on water for life. Its unique physical and chemical properties are important to the dynamics of Earth systems. Multiple factors affect the quality, availability, and distribution of Earth's water. As a limited natural resource, fresh water requires conservation efforts and thoughtful choices as human populations increase around the globe.



Essential questions:

- o How can you make a difference when it comes to water conservation?
- How does the land, the air, and human transformation of the planet affect the availability of fresh water?

Week 3: Due April 21

| 17 | . Participate in the lesson and begin the lab: All About Algae |
|-----------------|--|
| 18 Pollution | . Participate in the lesson and read the handout on: Solubility and Methylated Mercury |
| 19 | . Complete the lab activity: Solubility |

Week 4: Due April 28

_____ 20. Take the SAGE test (B1).

Week 5: Due May 5

_____ 21. Take the SAGE test (A1).

| Name | Period: | Cycle 4 March 31 – May 21 |
|------|---|---------------------------|
| | 22. Watch the Documentary: Billions in Change. | |
| | 23. Participate in the Socratic Dialogue on the Documer answer the following questions: What are the ethical issues in best and why? What can you do? | |

| Name | Period: | Cycle 4 March 31 – May 21 |
|------|---------|---------------------------|
| | | |

Earth Science Study Guide INTERDEPENDENCE (Weeks 6 & 7)

Overview

Water is an essential natural resource on planet Earth. All organisms on Earth depend on water for life. Its unique physical and chemical properties are important to the dynamics of Earth systems. Multiple factors affect the quality, availability, and distribution of Earth's water. As a limited natural resource, fresh water requires conservation efforts and thoughtful choices as human populations increase around the globe.

Essential questions:

- o How can you make a difference when it comes to water conservation?
- How does the land, the air, and human transformation of the planet affect the availability of fresh water?

Week 6: Freshman Field Trip

Mook 7: Due April 20

| Week 7. Due April 23 | <i>)</i> |
|----------------------|-----------------------------|
| 24. Study fo | or and Take the unit final. |